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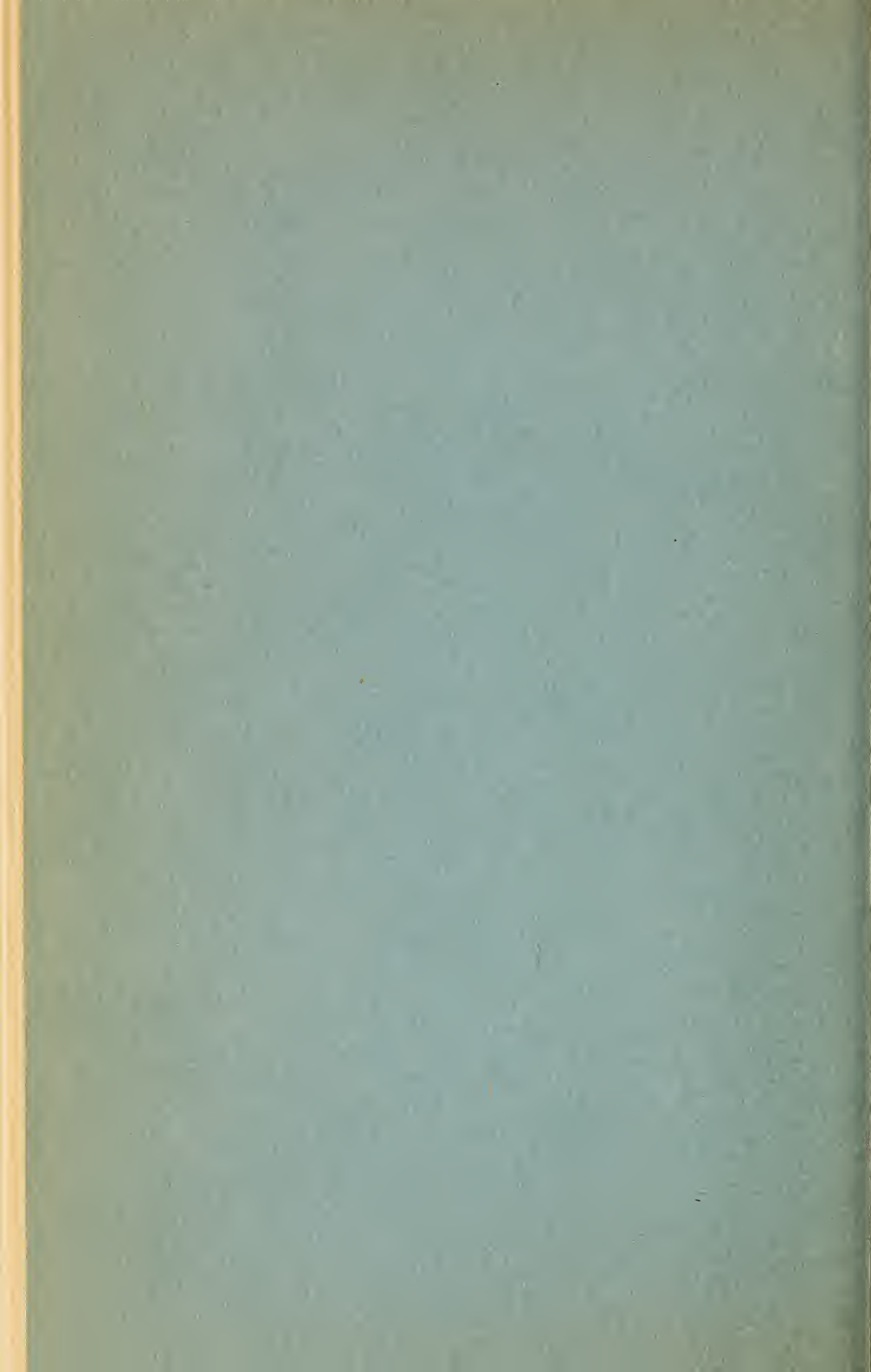
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U. S. DEPARTMENT OF AGRICULTURE,

BUREAU OF ANIMAL INDUSTRY.

A. D. MELVIN, CHIEF OF BUREAU.

SERVICE AND REGULATORY ANNOUNCEMENTS.

JANUARY, 1915.

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 50 cents a year. A supply will be sent to each official in charge of a station or branch of the bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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CHANGES IN DIRECTORY.**Meat Inspection Inaugurated.**

975. Holland Pure Food Co., 324 Wall Street, Port Huron, Mich.
 42-C. Jacob Dold Packing Co., Wallabout Market, Brooklyn, N. Y.
 *960. Paul O. Reymann Co., Wetzel and Warren Streets, Wheeling, W. Va.
 980. Holcombe Provision Co. (Inc.), 74 North Canal Street, Newark, N. J.
 *260. Miller & Hart, Forty-fifth Place and Packers Avenue, Chicago, Ill.
 882. United States Chinese Food Co., 65 Park Street, New York, N. Y.
 977. Wisconsin Butterine Co., 598 Clinton Street, Milwaukee, Wis.

Meat Inspection Discontinued.

435. Schonland Bros., 8 Union Street, Portland, Me.
 544. Royal Specialty Co., 92 Reade Street, New York, N. Y.
 912. C. Perceval (Inc.), 4 Ninth Avenue, New York, N. Y.
 656-A. Workman Packing Co., 2626 Shields Avenue, Chicago, Ill.
 876. Independent Provision Co., 5 North Water Street, Philadelphia, Pa.
 260. Miller & Hart, Twenty-fifth and La Salle Streets, Chicago, Ill.
 *260-A. Miller & Hart, Forty-fifth Place and Packers Avenue, Chicago, Ill.
 307. Eastern Oil & Rendering Co., Portsmouth, N. H.

New Station.

Port Huron, Mich. (substation of Detroit, Mich.).

Station Discontinued.

Portsmouth, N. H. (substation of Boston, Mass.).

Changes in Firm Names.

- *779. Watertown Packing Co., Watertown, S. Dak., instead of the Whooley Packing Co.
 800. Bryan & Bruch, 30½ Lafayette Street, Newark, N. J., instead of the Misses Gregory.
 *933. Home Packing Co., Sugar Land, Tex., instead of the Jones Bros. & Co.

Changes of Officials in Charge.

Dr. W. O. Trone, room 300, Federal Building, Wheeling, W. Va., instead of care of F. Schenk & Sons Co.

Dr. M. T. Perry, instead of Dr. J. J. Smart, care of White, Pevey & Dexter Co., Worcester, Mass.

Note.

Meat inspection has been extended as follows: Establishment 800, to include the Misses Gregory; establishment 882, to include Chinese American Food Co.

NOTICES REGARDING MEAT INSPECTION.**PATHOLOGICAL DIFFERENCES BETWEEN HEMORRHAGIC KIDNEYS IN HOG CHOLERA AND IN GLOMERULAR NEPHRITIS.**

Microscopic examinations of hemorrhagic hog-cholera kidneys by the Pathological Division show that while vascular changes are constantly present, the capillaries of the glomeruli are usually constricted, giving the Malpighian bodies an atrophic

appearance, and allowing only a small space between the wall covering the surface of the glomerulus and the outer wall, Bowman's capsule. The intertubular capillaries may be filled with blood, and occasional hemorrhages varying in size are found in their course between the tubules in the cortical but not in the medullary portion of the kidney.

In hemorrhagic kidneys due to glomerular nephritis, on the other hand, the capillaries of the glomeruli are distended and the intercapsular spaces are open, giving the Malpighian body a hypertrophic appearance. The intertubular capillaries usually show little alteration.

Interstitial changes are constantly present and characteristic in hog cholera but conspicuously absent in glomerular nephritis. In acute cases of hog cholera a generalized inflammatory cell proliferation is present between the tubules of the cortex, while in subacute and chronic cases the cell proliferation is localized in clusters varying in size, in addition to the generalized individual cell proliferations between the tubules. In hog cholera epithelial changes are seldom pronounced, usually with only slight degeneration, no disintegration, and no desquamation, while in glomerular nephritis degeneration, desquamation, and disintegration are quite marked.

SHIPMENTS BETWEEN OFFICIAL ESTABLISHMENTS.

In order to facilitate economy in shipment, rendered edible products such as neutral lard and oleo oil in tight tierces may be shipped between official establishments with "meat passed for sterilization" in sealed cars.

MINERAL OIL FOR DENATURING.

Mineral oil such as gas oil, power distillate, or an equivalent, having a boiling point not lower than 205° C. (401° F.), a flash point (open cup) not lower than 75° C. (167° F.), a specific gravity not lower than 0.819 (42° B.), and which may be easily recognized by taste when present in fat in the proportion of 1 part of oil to 1,000 parts of fat, may be permitted as a denaturing agent when added to carcasses and parts during the process of rendering, or to fats which are rerendered, provided the quantity of the oil denaturant used is sufficient to make *1 part of oil in each 200 parts* of the anticipated yield of rendered grease.

A four-ounce sample should be taken by the bureau inspector from each lot of oil which an official establishment desires to use as a denaturing agent and submitted to the meat-inspection laboratory, Washington, D. C., to determine if it meets the bureau requirements.

Inspectors will not permit the use of any oil at official establishments until it has been examined and instructions have been received from the Washington office.

MAKING OUT REPORTS.

M. I. Form 109-J.—In reporting on M. I. Form 109-J, the separate weights of the various classes and cuts of meats should be given in each instance, and the report should clearly show in all cases whether the products are fresh or cured.

M. I. Forms 140 and 140-A.—When carcasses and parts passed for sterilization are placed in stock for canning (second class), without removing the portions which are to be sterilized by rendering into lard or tallow, the gross weights of such carcasses or parts shall be reported on M. I. Forms 140 and 140-A as placed in stock. When any portion of such carcasses or parts is removed for rendering, an entry should be made on the 140 and 140-A forms between the lines "Removed for canning" and "Shipped to other official establishments," thus: "Removed for rendering," giving the class and weights of the products removed for rendering or tanking.

Inasmuch as there is a varying shrinkage between the weights of fresh-meat products when placed in refrigeration and the weights of the same products when removed

from stock in a frozen condition, the amount of such discrepancy should be reported at least bimonthly by letter or by a notation on M. I. Form 140, when ascertainable through entire removal of stock by inventory or by other means.

ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION, DECEMBER, 1914.

City.	Cattle.	Calves.	Sheep.	Goats.	Swine.
	<i>Number.</i>	<i>Number.</i>	<i>Number.</i>	<i>Number.</i>	<i>Number.</i>
Chicago.....	172,946	20 189	406,740	2 785	896,512
Fort Worth.....	55,034	10,242	6,393	4,255	4,334
Kansas City.....	81,435	7,372	88,439	4,009	228,003
National Stock Yards.....	73,451	8,758	30,161	4,252	113,071
South Omaha.....	43,856	2,155	131,882	335	178,848
South St. Joseph.....	19,764	2,246	41,858	61	197,263
All other establishments.....	235,694	68,249	461,596	1,572	2,612,569
Total, December, 1914.....	682,180	119,211	1,167,069	17,269	4,270,600
Total, December, 1913.....	590,482	121,509	1,283,869	7,861	3,918,686
Total, January-December, 1914.....	6,756,737	1,696,962	14,229,343	175,906	32,531,840
Total, January-December, 1913.....	6,978,361	1,902,414	14,405,759	75,655	34,198,585

IMPORTS OF FOOD ANIMALS AND OF MEATS AND MEAT FOOD PRODUCTS.

The following statements show the imports of food animals and of meats and meat food products inspected by the Bureau of Animal Industry during December, 1914, together with totals for the calendar year 1914.

Imports of food animals.

Country of export.	Cattle.	Swine.	Sheep.	Goats.
	<i>Number.</i>	<i>Number.</i>	<i>Number.</i>	<i>Number.</i>
Mexico.....	37,303	170	12,693	4,383
Canada.....	17,864	36,557	6,226	.....
Total, December, 1914.....	55,167	36,727	18,919	4,383
Total, January-December, 1914.....	756,345	211,005	179,706	174,284

Imports of meats and meat food products.

Country of export.	Fresh and refrigerated meats.		Canned and cured meats.	Other products.	Total.
	Beef.	Other.			
	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Argentina.....	6,059,811	786,035	.....	.....	6,845,846
Australia.....	525	99,342	1,692	.....	101,559
Canada.....	3,028,160	1,109,851	1,036,029	500,663	5,674,703
Uruguay.....	1,098,714	.....	.....	.....	1,098,714
Other countries.....	359,087	366	44,508	71,810	475,771
Total, December, 1914.....	10,546,297	1,995,594	1,082,229	572,473	14,196,593
Total, December, 1913.....	13,295,027	471,140	1,077,813	1,231,040	16,074,520
Total, January-December, 1914.....	241,563,588	36,299,616	30,045,423	6,579,353	314,486,980

Rejected: Beef, 784,680 pounds; mutton, 273,340 pounds; pork, 1,135 pounds; total, 1,059,155 pounds.

FOREIGN OFFICIALS AUTHORIZED TO SIGN INSPECTION CERTIFICATES FOR MEAT AND PRODUCTS FOR IMPORTATION INTO THE UNITED STATES.

In Service and Regulatory Announcements for December, 1914, there was given a list of names, with fac-simile signatures, of foreign national Government officials authorized to sign and issue certificates of inspection for meat and meat food products offered for importation into the United States. This list was revised to January 1, 1915, and superseded previous lists. Only certificates signed by officials shown in that or subsequent lists will be accepted. The following additions are now made:


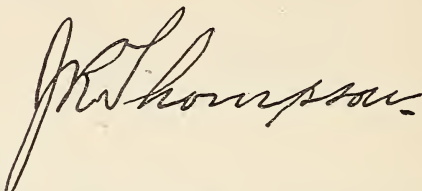
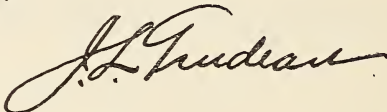
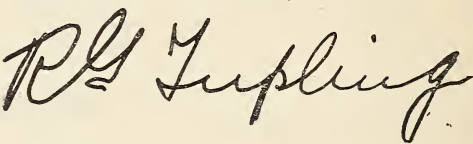
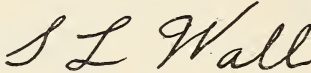
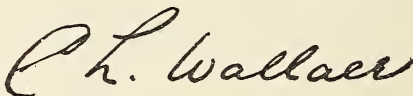
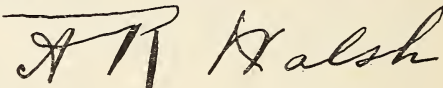

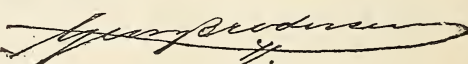
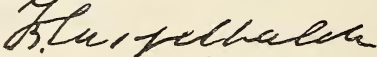
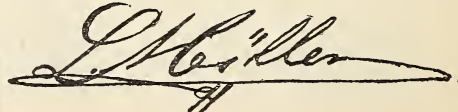
Country, name, and address.	Signature.
<i>Australia.</i> D. Joyce, Brisbane, Queensland...	<i>D. Joyce.</i>
<i>Canada.</i> C. S. Anderson, Ottawa.....	<i>C. S. Anderson.</i>
F. R. Armstrong, Montreal.....	<i>F. R. Armstrong</i>
M. Barker, Calgary.....	<i>M. Barker</i>
A. W. Beach, Stratford.....	<i>A. W. Beach</i>
W. R. Bell, London.....	<i>W. R. Bell.</i>
Olaf Bernsten, Toronto.....	<i>Olaf Bernsten.</i>
F. C. Bishop, Winnipeg.....	<i>F. C. Bishop.</i>
S. G. Bright, Moose Jaw.....	<i>S. G. Bright</i>
C. Brind, Winnipeg.....	<i>C. Brind.</i>
C. S. Cain, Hamilton.....	<i>C. S. Cain</i>

Country, name, and address.	Signature.
<i>Canada—Continued.</i>	
A. A. H. Carley, Chatham.....	<i>A. A. H. Carley</i>
I. Christian, Edmonton.....	<i>I. Christian</i>
G. C. Cockerton, Toronto.....	<i>G. C. Cockerton</i>
J. G. Davidson, Brantford.....	<i>J. G. Davidson</i>
R. B. Dellert, Winnipeg.....	<i>R. B. Dellert</i>
J. Dickinson, Vancouver.....	<i>J. Dickinson</i>
A. R. Douglas, Montreal.....	<i>A. R. Douglas</i>
J. E. A. Duhamel, Hamilton.....	<i>J. E. A. Duhamel</i>
J. R. English, Winnipeg.....	<i>J. R. English</i>
H. R. Estes, Winnipeg.....	<i>H. R. Estes</i>
T. E. H. Fisher, Toronto.....	<i>T. E. H. Fisher</i>
H. Garrett, Hamilton.....	<i>H. Garrett</i>

Country, name, and address.	Signature.
<i>Canada—Continued.</i>	
J. O. Guertin, Ingersoll.....	<i>J. O. Guertin</i>
J. R. N. Harrison, Winnipeg.....	<i>J. R. N. Harrison.</i>
E. E. Howe, Montreal.....	<i>E. E. Howe</i>
James G. Jervis, Vancouver.....	<i>James G. Jervis</i>
C. J. Johannes, Hamilton.....	<i>C. J. Johannes</i>
F. C. Jones, Winnipeg.....	<i>F. C. Jones.</i>
W. Kime, Brantford.....	<i>W. Kime</i>
William B. R. Knowles, Edmon- ton.....	<i>W. B. R. Knowles</i>
G. A. Ledgerwood, Montreal.....	<i>G. A. Ledgerwood</i>
F. Lefebvre, Edmonton.....	<i>F. Lefebvre</i>
J. E. M. Lefebvre, Toronto.....	<i>J. E. M. Lefebvre</i>

Country, name, and address.	Signature.
<i>Canada—Continued.</i>	
J. G. MacDonald, Winnipeg.....	<i>J. G. MacDonald</i>
J. A. McLeish, Calgary.....	<i>J. A. McLeish</i>
W. B. MacFadzean, Toronto.....	<i>W. B. MacFadzean.</i>
G. M. Manning, Toronto.....	<i>G. M. Manning</i>
C. A. Mitchell, Toronto.....	<i>C. A. Mitchell</i>
William A. Morrin, Hamilton....	<i>Wm. A. Morrin</i>
George A. Nichol, Winnipeg.....	<i>George A. Nichol</i>
R. D. Orr, Ingersoll.....	<i>R. D. Orr</i>
J. H. Part, Edmonton.....	<i>J. H. Part</i>
T. M. Pine, Stratford.....	<i>T. M. Pine</i>
H. Pomfret, Winnipeg.....	<i>H. Pomfret</i>

Country, name, and address.	Signature.
<i>Canada—Continued.</i>	
J. W. Purdy, Moose Jaw.....	<i>J. W. Purdy.</i>
A. C. Ramsay, Hamilton.....	<i>A. C. Ramsay</i>
James D. Ross, Winnipeg.....	<i>James D. Ross</i>
William Seymour, Calgary.....	<i>William Seymour.</i>
J. H. Shonyo, Winnipeg.....	<i>J. H. Shonyo.</i>
George W. Starnaman, Montreal..	<i>Geo. W. Starnaman.</i>
J. Steen, Montreal.....	<i>J. Steen</i>
H. C. Storey, Calgary.....	<i>H. C. Storey.</i>
J. M. Stuart, Toronto.....	<i>J. M. Stuart.</i>
L. H. Swail, Edmonton.....	<i>L. H. Swail</i>

Country, name, and address.	Signature.
<i>Canada—Continued.</i>	
J. A. Theoret, Moose Jaw.....	
J. R. Thompson, Chatham.....	
J. L. Trudeau, Winnipeg.....	
Denis Erskine-Tullock, Calgary...	Denis Erskine-Tullock
R. G. Tupling, Edmonton.....	
S. L. Wall, Toronto.....	
C. L. Wallace, Toronto.....	
A. R. Walsh, Winnipeg.....	
George Whitehead, Edmonton	
<i>Denmark.</i>	
George Brodersen, Copenhagen...	
B. Hasselbalch, Copenhagen.....	
L. Möller, Copenhagen	

Country, name, and address.	Signature.
<i>Denmark—Continued.</i>	
H. P. Nielsen, Copenhagen	<i>L. P. Nielsen</i>
Marius Nielson, Copenhagen.....	<i>Marius Nielson</i>
P. C. Rasmussen, Slagelse	<i>P. C. Rasmussen</i>
C. Stub	<i>C. Stub</i>
<i>Japan.</i>	
Yasufumi Naganuma, Hiroshima Prefecture.	<i>Y. Naganuma</i>
<i>Mexico.</i>	
O. E. Troy, Ciudad Juarez.....	<i>O. E. Troy</i>

NAMES REMOVED FROM LIST.

GREAT BRITAIN.

R. Sydney Marsden, Birkenhead, Cheshire, England.
John F. Little, Harrow, England.

INSPECTION AND TESTING OF ANIMALS FOR CANADA.

The following changes have been made in the list of practicing veterinarians registered by the Bureau and authorized to inspect and test with mallein horses, mules, and asses intended for export to Canada:

NAMES ADDED TO LIST.

Dr. Otis A. Longly, Fresno, Cal.
Dr. John F. McKenna, Fresno, Cal.

CHANGE OF ADDRESS.

Dr. E. J. Drake, from Toledo, Wash., to Glendive, Mont.

TEXAS-FEVER QUARANTINE—LIST OF PLACES WHERE SOUTHERN CATTLE MAY BE SHIPPED FOR IMMEDIATE SLAUGHTER.

Referring to section 4 of regulation 2 of the revised regulations governing the interstate movement of live stock (B. A. I. Order 210), there is given below a list of places in the State of Ohio to which cattle of the area quarantined on account of splenetic, southern, or Texas fever may be shipped for immediate slaughter:

Cleveland.—The Theurer-Norton Provision Co., Henry Walcher, Tuefel Bros., Nick Davis, Long Dressed Beef Co., The Lake Erie Provision Co., The Ohio Provision Co. (C. S. Schneider), The Hartman Provision Co., The Blumenstock & Reid Co., The Hughes Provision Co. (care of Retail Butcher's Protective Association), Webb Bro. (care of Retail Butchers' Protective Association), The Retail Butchers' Protective Association, Cleveland Provision Co.

West Toledo.—N. Rassel Sons Co.

CONVICTIONS FOR VIOLATIONS OF LAWS.

MEAT-INSPECTION LAW.

In cases against the following-named persons, charged with violating the meat-inspection law in shipping in interstate trade unsound meat or meat food products the defendants were fined the amounts shown:

Name and address.	Fine.
L. H. Lang Co., New York, N. Y.	\$10
Do.	10
C. B. Schwartz, Taneytown, Md.	15
M. Schlosberg, Stony Ford, N. Y.	25
Kate Smith, Johnsons, N. Y.	5
L. Stutz & Sons, Brooklyn, N. Y.	1,000
C. B. Fitch, Walton, N. Y.	25
R. R. Strohschein, Hawkeye, Iowa.	10
F. C. Miller, Clayton, Mass.	50
L. F. Hennema, Deansboro, N. Y.	25
Tarbell Farms, Greene, N. Y.	25
G. W. Nutter, Sidney, N. Y.	25
Max Bane, Durham, N. C.	10
Herman Brochtrup, Forest Junction, Wis.	10
John Telakowicz, Bayonne, N. J.	25
Erskine Wilkins, Stony Ford, N. Y. (3 cases)	45
George Carpenter, Stony Ford, N. Y.	25
Ambrose Carmody, Stony Ford, N. Y.	5
H. Rohr, Burlington, Wis.	10
W. F. Drake, Columbia Cross Roads, Pa.	10

¹ And costs.

In the case against J. J. Kelly, Middletown, N. Y., charged with violating the meat-inspection law in shipping unsound meat in interstate trade the defendant pleaded guilty and was sentenced to 30 days in the New York County penitentiary.

In the case against Joe Cook, Bellaire, Ohio, charged with violating the meat-inspection law in shipping uninspected meat food products in interstate trade, the defendant pleaded guilty and a fine of \$15 and costs was assessed, but the defendant having failed to pay the fine and costs was committed to jail.

In cases against the following-named persons, charged with violating the meat-inspection law in shipping uninspected meat and meat food products in interstate trade, the defendants were fined the amounts shown:

Name and address.	Fine.
Iceland & Katz, New York, N. Y. (6 cases)	\$120
Penn Beef Co., Philadelphia, Pa.	50
E. S. Alpaugh & Co., New York, N. Y. (5 cases)	75
Rohe & Bro., New York, N. Y.	25
Knight & Co., Boston, Mass.	50

¹ And costs.

TWENTY-EGHT-HOUR LAW.

The following results of prosecutions for violations of the 28-hour law were reported to the bureau during the month of January, 1915:

Number of cases.	Defendant.	Fine.
1	Chicago, Burlington & Quincy R. R. Co.....	\$120.48
6	Boston & Maine R. R. Co.....	400.00
1	St. Louis, Iron Mountain & Southern Ry. Co.....	116.10
1	Wabash R. R. Co.....	¹ 100.00
2	Atchison, Topeka & Santa Fe Ry. Co.....	¹ 200.00
5	Chicago, Rock Island & Pacific Ry. Co.....	533.75
1	Southern Ry. Co.....	¹ 100.00
2	Chicago, Milwaukee & St. Paul Ry. Co.....	¹ 200.00
4	Illinois Central R. R. Co.....	400.00
5	Oregon Short Line R. R. Co.....	¹ 664.70
1	Chicago & North Western Ry. Co.....	¹ 100.00
1	Union Pacific Ry. Co.....	299.42
1	Chicago & Erie R. R. Co.....	¹ 100.00
2	St. Louis Southwestern Ry. Co.....	¹ 200.00
	Total (33 cases).....	¹ 3,534.45

¹ And costs.

QUARANTINE LAW.

The following results of prosecutions for violations of the live-stock quarantine law were reported to the bureau during the month of January, 1915:

Number of cases.	Defendant.	Nature of violation.	Fine.
5	Great Northern Ry. Co.....	Shipment of cattle affected with scabies.	¹ \$500.00
4	Cleveland, Cincinnati, Chicago & St. Louis Ry. Co....	Shipment of ticky cattle.....	¹ 1,000.00
1	Louisville & Nashville R. R. Co.....	do.....	¹ 100.00
10	Southern Ry. Co.....	do.....	¹ 1,000.00
13	Illinois Central R. R. Co.....	do.....	¹ 1,300.00
1	Central of Georgia Ry. Co.....	do.....	¹ 100.00
1	A. Greenberg.....	do.....	¹ 10.00
2	Seaboard Air Line Ry. Co.....	do.....	200.00
2	Richmond, Fredericksburg & Potomac R. R. Co.....	do.....	200.00
2	Atchison, Topeka & Santa Fe Ry. Co.....	Shipment of sheep and cattle affected with scabies.	¹ 200.00
1	Missouri, Kansas & Texas Ry. Co.....	Shipment of ticky cattle.....	¹ 100.00
1	Chicago, Rock Island & Pacific Ry. Co.....	do.....	¹ 100.00
1	O. E. Cobb.....	do.....	¹ 100.00
1	Texas & Pacific Ry. Co.....	do.....	¹ 100.00
	Total (45 cases).....		¹ 5,010.00

¹ And costs.

SERUM LAW.

In a case against the Missouri Valley Serum Co., Kansas City, Kans., for violation of the law governing the manufacture, etc., of viruses, serums, etc., for the treatment of domestic animals, the defendant pleaded guilty to the charge of shipping anti-hog-cholera serum interstate before a Federal license was issued, and was fined \$50 and costs.

Ed Wiglesworth and S. E. Wiglesworth, trading under the firm name of Interstate Vaccine Co., Kansas City, Mo., in two cases pleaded guilty to the charge of violating the serum law by the interstate shipment of anti-hog-cholera serum and hog-cholera virus without a license, and were fined \$50 and costs in each case.

LICENSES AND PERMITS FOR VETERINARY BIOLOGICAL PRODUCTS.

Licenses for the manufacture and permits for the importation of veterinary biological products have been issued as follows for the calendar year 1915, under the act of Congress of March 4, 1913 (37 Stat., 832) and the regulations made thereunder (B. A. I. Order 196):

Licenses for the manufacture of veterinary biological products.

Licenses No.	Name and address of firm.	Products.
1	National Vaccine and Antitoxin Institute, 1513-15 U Street, Washington, D. C.	Tuberculin.
2	Eagle Serum Co., Third Street and Central Avenue, Kansas City, Kans.	Anti-hog-cholera serum; hog-cholera virus.
3	H. K. Mulford Co., office, 428 South Thirteenth Street, Philadelphia, Pa.; plant, Glenolden, Pa.	Blackleg vaccine; anthrax vaccine; abortin solution; pneumo-strepto mixed bacterin; polyvalent mixed bacterin; strepto bacterin; coli bacterin; staphylococcus bacterin; tetanus antitoxin; antistreptococci serum; rabies vaccine; abortus bacterin; tuberculin; mallein; white scours serum; white scours sero-bacterin; canine distemper serum; canine distemper sero-vaccine.
4	The Abbott Laboratories, 4735-39 Ravenswood Avenue, Chicago, Ill.	Poly-bacterins (staphylococci, streptococci, and <i>Bacillus coli</i>); staphylo bacterins (mixed staphylococci); strepto bacterins (anti-influenza bacterins); blackleg vaccine; canine distemper bacterin (<i>Bacillus bronchisepticus</i> , staphylococci, and streptococci); canine distemper serum.
5	Parke, Davis & Co., Atwater and McDougall Streets, Detroit, Mich., and Rochester, N. Y.	Antistreptococcic serum; antitetanic serum; antitetanic serum, dry; antitetanic serum, veterinary (globulin); blacklegoids for sheep; blacklegoids, singles; blacklegoids, doubles; colon vaccine; canine distemper vaccine (prophylactic); canine distemper vaccine (curative); equine influenza vaccine (prophylactic); equine influenza vaccine (curative); influenza antitoxin; mallein; mixed-infection phylacogen; pneumonia phylacogen; staphylococcus vaccine combined (veterinary); streptococcus vaccine; streptococcus and staphylococcus vaccine (combined); tuberculin; white scours serum.
6	Pitman-Moore Co., plant, Zionsville, Ind.; office, 111-117 North Capitol Avenue, Indianapolis, Ind.	Anti-hog-cholera serum; hog-cholera virus.
8	Clyde W. Hevner, Franklin, Nebr.	Anti-hog-cholera serum; hog-cholera virus.
9	Lederle Antitoxin Laboratories, Pearl River, N. Y.	Tetanus antitoxin; antistreptococcus serum; rabies vaccine; equine influenza vaccine; colon vaccine; streptococcus vaccine; staphylococcus vaccine; pneumonia vaccine; mixed bacterial vaccine; tuberculin; mallein; blackleg vaccine.
10	Wichita & Oklahoma Serum Co., Stock Yards, Wichita, Kans.	Anti-hog-cholera serum; hog-cholera virus.
11	Sioux Falls Serum Co., Stock Yards, Sioux Falls, S. Dak.	Do.
12	Royal Serum Co., Osage and Adams Streets, Kansas City, Kans.	Do.
14	Imperial Serum Co., Twenty-second and Genesee Streets, Kansas City, Mo.	Do.
15	Tri-State Serum Co., 311 Central Avenue, Kansas City, Kans.	Do.
16	Standard Serum Co., Prospect and Dodge Streets, Sioux City, Iowa.	Do.
18	Stock Yards Serum Co., 211 Central Avenue, Kansas City, Kans.	Do.
19	Sheldon Serum Co., 610 West Thirty-fifth Street, Kansas City, Mo.	Do.
21	Continental Serum Laboratories, 1228 North First Street, East St. Louis, Ill.	Do.
22	Accuracy Laboratories, 1714 West Madison Street, Chicago, Ill.	Pneumococcus vaccine; combined staphylococcus vaccine; polyvalent bacterin; coli communis bacterin; influenza bacterin; streptococcus vaccine; combined streptococcus, staphylococcus, coli, and pneumococcus vaccine.
23	Missouri Valley Serum Co., 50 North Second Street, Kansas City, Kans.	Anti-hog-cholera serum; hog-cholera virus.
24	Sihler Hog Cholera Serum Co., Central Avenue and Water Street, Kansas City, Kans.	Do.
26	Kaw Valley Serum Co., Greystone Avenue and Perry Street, Kansas City, Kans.	Do.

Licenses for the manufacture of veterinary biological products—Continued.

License No.	Name and address of firm.	Products.
28	North Portland Serum Co., post office box 39, North Portland, Oreg. (Plant on property of Peninsula Industrial Co.)	Anti-hog-cholera serum; hog-cholera virus.
29	Ames Vaccine Co., Fort Dodge, Iowa...	Do.
31	Comparative Vaccine Laboratories (Inc.), 214 Livingston Street, Brooklyn, N. Y.	Aggressive vaccine, mixed; canine distemper vaccine; autogenous vaccine; equine vaccine, Bulgar-Lac.
32	Standard Serum Co., 11 South Second Street, Kansas City, Kans.	Anti-hog-cholera serum; hog-cholera virus.
34	National Serum Co., Second Street and Myers Avenue, Kansas City, Kans.	Do.
35	H. M. Alexander & Co. (Inc.), Marietta, Pa.	Tetanus antitoxin; antirabic vaccine; tuberculin; mallein.
37	Sioux City Serum Co., 221 Exchange Building, Stock Yards, Sioux City, Iowa.	Anti-hog-cholera serum; hog-cholera virus.
38	Hueben Serum Co., First Street and Waverly Avenue, Kansas City, Kans.	Do.
40	Cedar Rapids Serum Co., Twenty-third and Mallory Streets, Cedar Rapids, Iowa.	Do.
41	A. T. Kinsley Laboratories, 1426 Lydia Avenue (office, 1336 East Fifteenth Street), Kansas City, Mo.	Polyvalent bacterin; streptococcic bacterin; staphylococcic bacterin; colon bacterin; pneumo bacterin; autogenous bacterin; bacterin for pasteurellosis.
42	Northwestern Hog Cholera Serum Manufacturing Co., Stock Yards, South St. Paul, Minn.	Anti-hog-cholera serum; hog-cholera virus.
43	American Serum Co., 210 Central Avenue, Kansas City, Kans.	Do.
46	St. Joseph Live Stock Serum Co., Stock Yards, St. Joseph, Mo.	Do.
48	Kansas City Serum Co., Second Street and Myers Avenue, Kansas City, Kans.	Do.
49	Slee Laboratories, Swiftwater, Pa.	Tetanus antitoxin.
52	Cutter Laboratory, Sixth and Grayson Streets, Berkeley, Cal.	Blackleg vaccine; anthrax vaccine; tuberculin; mallein; tetanus antitoxin; antistreptococcic serum; distemper and influenza serum; antisyphilitic (a polyvalent bacterial vaccine); antiinfluenza vaccine; mixed pneumonia vaccine; streptococcic vaccine; dog distemper vaccine.
53	Nodaway Valley Serum Co., Skidmore, Mo.	Anti-hog-cholera serum; hog-cholera virus.
54	Kansas Agricultural College, Veterinary Department, Manhattan, Kans.	Blackleg vaccine.
56	Southwestern Serum Co., Twenty-first Street and Lawrence Avenue, Wichita, Kans.	Anti-hog-cholera serum; hog-cholera virus.
57	Mason S. Peters United Serum Co., St. Joseph, Mo.	Do.
61	Guilfoil Serum Co., 18-22 North Second Street, Kansas City, Kans.	Do.
62	O K Serum Co., Thirty-third and L Streets, South Omaha, Nebr.	Do.
65	Hawkeye Serum Co., South Thirti-sixth Street, South Omaha, Nebr.	Do.
66	National Serum Co., Union Stock Yards, South St. Paul, Minn.	Do.
68	Dr. James McL. Phillips, 2057 North High Street, Columbus, Ohio.	Rabies vaccine.
69	Southern Serum Co., West Plains, Mo.	Anti-hog-cholera serum; hog-cholera virus.
70	St. Joseph Veterinary Laboratory, 1502 Garfield Avenue, St. Joseph, Mo.	Do.
71	Big O Serum Co., Central Avenue and Water Street, Kansas City, Kans.	Do.
72	Central Missouri Serum Co., Marshall, Saline County, Mo.	Do.
77	Corn Belt Serum Co., National Stock Yards, Ill.	Do.
79	Iowa Serum Co., Stock Yards, Sioux City, Iowa.	Do.
80	Tri-State Serum Co., Leech Street and Floyd River, Sioux City, Iowa.	Do.
81	Superior Serum Co., Second Street and Myers Avenue, Kansas City, Kans.	Do.
82	Axtell Serum Co., Gilmore Station, South Omaha, Nebr.	Do.

Licenses for the manufacture of veterinary biological products—Continued.

License No.	Name and address of firm.	Products.
83	E. R. Squibb & Sons; office, 80 Beekman Street, New York, N. Y.; plant, George Road, New Brunswick, N. J.	Pasteur antirabic vaccine; tetanus antitoxin; mallein; anti-hog-cholera serum; and hog-cholera virus.
84	Grain Belt Supply Co., 3215 L Street, South Omaha, Nebr.	Anti-hog-cholera serum; hog-cholera virus.
85	The Western Laboratories, Twenty-fourth Street and Broadway, Oakland, Cal.	Leucocytic extract; autogenic bacterins.
88	Farmers' Serum Co., National Stock Yards, Ill.	Anti-hog-cholera serum; hog-cholera virus.
89	United States Serum Co., Central Avenue and Water Street, Kansas City, Kans.	Do.
90	Sunflower Serum Co., 322 North First Street, Kansas City, Kans.	Do.
91	Gregory Farm Laboratory, White Hall, Greene County, Ill.	Do.
93	Slater Serum Co., Ewing Street and Myers Avenue, Kansas City, Kans.	Do.
95	Jacob E. Decker & Sons, Henderson Street, Mason City, Iowa.	Do.
98	Grand Rapids Serum Co., 154 Louis Street, Grand Rapids, Mich.; laboratory, Barendsenville, Mich.	Anti-hog-cholera serum; hog-cholera virus; mixed infection bacterins; streptococcus infection bacterins; staphylococcus infection bacterins.
99	Corn State Serum Co., Forty-fourth Avenue and U Street, South Omaha, Nebr.	Anti-hog-cholera serum; hog-cholera virus.
101	Copeland Serum Co., Forty-eighth Avenue and Z Street, South Omaha, Nebr.	Do.
102	Lathrop Serum Co., Lathrop, Mo.	Do.
103	Fowler Serum Co., 335 North James Street and Second Street and Split-log Avenue, Kansas City, Kans.	Do.
104	Swan-Myers Co., 219 North Senate Street, Indianapolis, Ind.	Bacterins.
105	Canton Serum Co., Canton, S. Dak....	Anti-hog-cholera serum; hog-cholera virus.
106	Waterloo Serum Laboratories, Ansborough and Upton Streets, Waterloo, Iowa.	Do.

Permit for the importation of veterinary biological products.

Permit No.	Name and address of firm.	Products.
2	Pasteur Laboratories of America, New York, N. Y.	Tuberculin; antitetanic serum; anthrax vaccine; fowl-cholera vaccine; antianthrax serum; antistreptococcal serum; mallein; septic pneumonia germ-free extract; dysentery germ-free extract; fowl-cholera serum; abortiform; polyvalent strepto bacterin; antistrangles serum; canine-distemper serum; blackleg vaccine and serum. Foreign manufacturers: Labpasteur (Service des Vaccins de l'Institut Pasteur), Paris, France; Laboratoire des Vaccins Pasteur pour l'Etranger, Paris, France; Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfurt on the Main, Germany; S�rum Anti-Gourmeux, Boulogne, France; O. Thomas Laboratory, Verdun, France; Ed. Lua, Paris, France; Leclainche & Vall�e, Paris and Toulouse, France.

VESICLES IN FOOT-AND-MOUTH DISEASE.

Communications from members of the bureau and others on the subject of lesions of foot-and-mouth disease have contained from time to time inaccuracies of statement that reveal a hazy understanding of certain terms describing conditions of significance in the diagnosis of that disease.

The most important feature in connection with the diagnosis of foot-and-mouth disease is the vesicle, and this is one concerning which many loose statements have been

made in correspondence. Attention is directed to the meaning of this term as defined in medical dictionaries:

Vesicle (Latin *vesicula*, diminutive of *vesica*, bladder): 1. A small bladder, or sac, containing liquid. 2. A small blister; a small circumscribed elevation of the epidermis containing a serous liquid.

The second meaning in the above definition is the one applied to the pathological condition occurring in foot-and-mouth disease. The significance of vesicle, a word of Latin origin, becomes more familiar when described as being synonymous with blister, a word of English origin. Thus the definition of this latter term is as follows:

Blister (Middle English, blister, a vesicle): A vesicle, resulting from the exudation of serous fluid between the epidermis and the true skin.

In foot-and-mouth disease the initial stages in the development of the vesicle are described as consisting of a hyperemia (sometimes erroneously called a pimple) and serous infiltration of the papillæ of the skin or mucous membranes. This exudate loosens the more resistant superficial layer of cells, which rises and constitutes the outer structure, restraining the collection of serum. If, in the absence of abundant lesions, doubt exists as to the existence of a vesicle, the same may be demonstrated by palpation or by aspirating the serous contents with a hypodermic syringe. The fluid may be clear, watery, colorless, amber, or yellowish in early stages and later may be cloudy or grayish white in color. The extruded layer of cells constituting a thin membrane is fragile and bursts within a few days, leaving a surface which is highly reddened, moist with the exuding serum, and very sensitive.

The raw area left by the rupture of the blister and removal of the membrane is described as an erosion, literally an area eaten away.

In the absence of infection erosions rapidly heal by the development of a new epithelial layer, but often bacterial contamination occurs. In this case the area is extended deeper and to the sides, with the formation of purulent matter and exudate, the whole constituting the pathological condition best described as an ulcer, which eventually heals by cicatrization. It is defined as follows:

Ulcer (Latin *ulcus*): An open sore, other than a wound; a loss of substance on a cutaneous or mucous surface, and causing gradual disintegration and necrosis of the tissues.

The foregoing by no means includes the definition of the various pathological conditions occurring in foot-and-mouth disease and its complications, but merely covers some of the more important conditions of diagnostic importance about which confusion seems to exist.

THE NEW FISCAL REGULATIONS.

The attention of all employees concerned is called to the new fiscal regulations of the department effective February 1, 1915. Each station has been furnished with a copy, and where a larger supply is required additional copies may be obtained by making requisition for them on Form P-1.

To obviate disallowances, correspondence, and delay in the payment of accounts, employees are urged to make a careful study of these regulations in order to familiarize themselves with the many new requirements. If there be any doubt as to the meaning of any particular paragraph, it should be brought to the attention of the Washington office at once and the matter will be fully explained.

The attention of employees whose duties may require them to travel is particularly invited to the following with regard to certain paragraphs of the regulations:

Paragraph 78 (h). "Customary charges for subsistence expenses not to exceed \$5 for any one day may be allowed and will include all expenses incurred for meals, lodging,

bath, personal use of room at hotel during the daytime, waiter fees not exceeding 30 cents in any one day, fees for checking and portorage of baggage upon arrival at and departure from hotels not to exceed 10 cents for portage of and 10 cents for checking each piece, telegrams reserving hotel accommodations, laundry not exceeding 20 cents a day, and all other subsistence expenses."

It will be noted that laundry, hotel porter fees, checking of baggage in hotels, and telegrams reserving hotel accommodations which formerly were excluded are *now included* in "subsistence."

It will also be noted that paragraph 78 (*h*) differs from the wording of the paragraph as it appears in the new Fiscal Regulations, particularly in that part wherein it is provided that laundry charges are "to be prorated at 20 cents a day." This difference is due to a recent decision by the Comptroller of the Treasury, in which he ruled that laundry *can not* be prorated so as to charge to each day of the period covered by a payment its proportionate share thereof, and that a payment for laundry expense for any period must ordinarily be charged as subsistence for the day on which the payment is made, founded on the theory that laundry charges are usually paid on the day when they accrue. For example, when an employee who is authorized to expend not to exceed \$3.50 per day for subsistence makes a charge of \$1.35 in his account on the 7th day of the month for a laundry period of seven days, this \$1.35 must be added to all other subsistence charges on the 7th and the total thereof, including laundry, must not exceed \$3.50. But when several accrued charges (each supported by a laundry ticket, bill, or subvoucher) are paid on one day, they may be regarded as expense of the days on which they severally accrue. In such cases, each laundry ticket, bill, or subvoucher must indicate the period covered, otherwise the charges will be disallowed.

Paragraph 78 (r).—A departmental bill of lading must be used to cover the shipment of the household goods of an employee when such expense is formally authorized by the bureau in connection with the transfer from one official station to another for permanent duty. No action should be taken for the transfer of the household goods until the matter has been formally approved by the bureau and a departmental bill of lading issued therefor. Failure to observe these provisions may result in the disallowance of all charges incidental to the transfer of the goods, thus requiring the employee to defray such charges from his own personal funds.

Paragraph 90.—Subvouchers must be submitted for berth and seat fares on sleeping and parlor cars paid for in cash. The usual berth or seat check will be considered a subvoucher. To guard against berth and seat checks becoming lost, it is suggested that they be pinned to the reimbursement account or placed in an envelope bearing the employee's name and securely fastened to the account.

Paragraph 93.—In all cases where payment for livery or automobile hire or other special transportation is made on Form 5 voucher from Washington direct to the owner who furnished the service, a report must accompany the reimbursement account, showing the name of the person furnishing the livery, automobile, etc., the dates on which they were used, and the points visited. The bureau's present Form T-55 report is partially suitable for this purpose, but it lacks a column for showing the points visited. Until a revised form is furnished for this purpose employees will continue to use the Form T-55 report and show on the back the names of the places visited when such equipment was used.

USE OF PENALTY ENVELOPES.

By memorandum No. 117, issued January 5, 1915, the Secretary of Agriculture has amended paragraph 104 of the administrative regulations of the department to read as follows:

104. *Use of penalty envelopes.*—Official mail matter in penalty envelopes must bear the words "Official business" to entitle it to free transportation in the mails. The use of penalty envelopes to avoid the payment of postage on other than strictly official business is absolutely prohibited.

When an officer of the department writes to a private party on official business for information of value to the department, he may inclose with his letter an official envelope properly addressed to himself to cover the reply.

Penalty envelopes or penalty labels must not be furnished merchants or others from whom articles are purchased for the delivery of such articles by transmission through the mails. Penalty envelopes furnished by the department to persons not in the employ thereof, or who are not officers of the Government, must not be used by them for the transmission in the mails, free of postage, of any matter other than official information (correspondence) and indorsements relating thereto. But penalty envelopes addressed to the department may be furnished to publishers to be used by them in transmitting copies of their publications for which no charge is made when such publications contain official information necessary to the department. Penalty envelopes bearing a return address may also be supplied to persons in possession of public documents for use by them in returning such documents to the department.

STREET-CAR FARES.

Hereafter employees of the Bureau of Animal Industry, whether statutory employees or not, may receive reimbursement for street-car fares expended at their official stations in the transaction of official business, provided that they, or the station to which they belong, have been previously authorized to incur such street-car expense.

FEBRUARY PAY ROLLS.

Pay rolls and salary vouchers for the month of February should be submitted at the close of February 21.

Attention is invited to instructions on page 183 of Service Announcements for December, 1914, relating to the method to be employed in computing salary for fractional parts of the month of February.

PUBLICATIONS IN JANUARY.

[The Bureau keeps no mailing list for sending publications to individual employees, but publications are sent in bulk to inspectors in charge for distribution to members of their forces. The number of copies varies with the subject or nature of the publication and the number and class of employees. For example, in the case of a publication on a veterinary subject, sufficient copies are sent for the veterinarians. Inspectors in charge will use their judgment and distribute publications to best advantage. Additional copies will be furnished on request so far as possible.]

Department Bulletin 147. The Effect of the Cattle Tick upon the Milk Production of Dairy Cows. By T. E. Woodward and W. F. Turner, Dairy Division, and Cooper Curtice, Zoological Division. Pp. 22, figs. 6.

Department Bulletin 163. A Field Test for Lime-Sulphur Dipping Baths. By Robert M. Chapin, senior biochemist, Biochemic Division. Pp. 7.

Department Bulletin 166. Ophthalmic Mallein for the Diagnosis of Glanders. By John R. Mohler, assistant chief of bureau, and Adolph Eichhorn, senior bacteriologist, Pathological Division. Pp. 11, pl. 1.

Farmers' Bulletin 612. Breeds of Beef Cattle. By W. F. Ward, senior animal husbandman in beef-cattle investigations, Animal Husbandry Division. Pp. 23, figs. 18.

Farmers' Bulletin 623. Ice Houses and the Use of Ice on the Dairy Farm. By John T. Bowen, technologist, and Guy M. Lambert, dairyman, Dairy Division. Pp. 24, figs. 17.

Hints to Poultry Raisers. Pp. 4, figs. 2.

Amendment 1 to B. A. I. Order 231. To Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. (Modifies quarantine relating to Indiana, Kentucky, Maryland, Michigan, New Hampshire, and Ohio.)

Amendment 2 to B. A. I. Order 231. (Modifies quarantine relating to Delaware, Indiana, Iowa, Kentucky, Maryland, New York, and Ohio.)

Amendment 3 to B. A. I. Order 231. (Modifies quarantine relating to Connecticut, Indiana, Iowa, Massachusetts, New Jersey, Rhode Island, and Wisconsin.)

Amendment 4 to B. A. I. Order 231. (Modifies quarantine relating to Indiana, Iowa, Michigan, and Ohio.)

B. A. I. Order 232. To Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. (Supersedes Order 231 and amendments, and specifies new quarantined area.)

Moldiness in Butter. By Charles Thom and R. H. Shaw. Pp. 301-310. (Reprint from the Journal of Agricultural Research.)

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